PCT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/505,239

DATE: 08/26/2004
TIME: 15:56:23

Input Set : A:\229694.txt
Output Set: N:\CRF4\08262004\J505239.raw

```
  3 <110> APPLICANT: TARASOVA, Nadya I
  4       MICHEJDA, Christopher J
  5       DYBA, Marcin
  6       COHRAN, Carolyn
  8 <120> TITLE OF INVENTION: CONJUGATES OF LIGAND, LINKER AND CYTOTOXIC AGENT AND RELATED
  9       COMPOSITIONS AND METHODS OF USE
 11 <130> FILE REFERENCE: 229694
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/505,239
C--> 13 <141> CURRENT FILING DATE: 2004-08-19
 13 <150> PRIOR APPLICATION NUMBER: PCT/US03/06344
 14 <151> PRIOR FILING DATE: 2003-02-27
 16 <150> PRIOR APPLICATION NUMBER: 60/360,543
 17 <151> PRIOR FILING DATE: 2002-02-27
 19 <150> PRIOR APPLICATION NUMBER: 60/370,189
 20 <151> PRIOR FILING DATE: 2002-04-05
 22 <160> NUMBER OF SEQ ID NOS: 28
 24 <170> SOFTWARE: PatentIn version 3.2
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 4
 28 <212> TYPE: PRT
 29 <213> ORGANISM: Artificial Sequence
 31 <220> FEATURE:
 32 <223> OTHER INFORMATION: Synthetic
 34 <400> SEQUENCE: 1
 36 Phe Ala Leu Ala
 37 1
 40 <210> SEQ ID NO: 2
 41 <211> LENGTH: 5
 42 <212> TYPE: PRT
 43 <213> ORGANISM: Artificial Sequence
 45 <220> FEATURE:
 46 <223> OTHER INFORMATION: Synthetic
 48 <400> SEQUENCE: 2
 50 Val Leu Ala Leu Ala
 51 1               5
 54 <210> SEQ ID NO: 3
 55 <211> LENGTH: 4
 56 <212> TYPE: PRT
 57 <213> ORGANISM: Artificial Sequence
 59 <220> FEATURE:
 60 <223> OTHER INFORMATION: Synthetic
 62 <400> SEQUENCE: 3
 64 Ala Leu Ala Leu
```

RAW SEQUENCE LISTING   DATE: 08/26/2004
PATENT APPLICATION: US/10/505,239   TIME: 15:56:23

Input Set : A:\229694.txt
Output Set: N:\CRF4\08262004\J505239.raw

65 1
68 <210> SEQ ID NO: 4
69 <211> LENGTH: 5
70 <212> TYPE: PRT
71 <213> ORGANISM: Artificial Sequence
73 <220> FEATURE:
74 <223> OTHER INFORMATION: Synthetic
76 <400> SEQUENCE: 4
78 Ala Leu Ala Leu Ala
79 1   5
82 <210> SEQ ID NO: 5
83 <211> LENGTH: 33
84 <212> TYPE: PRT
85 <213> ORGANISM: Artificial Sequence
87 <220> FEATURE:
88 <223> OTHER INFORMATION: Synthetic
90 <400> SEQUENCE: 5
92 Leu Gly Pro Gln Gly Pro Pro His Leu Val Ala Asp Pro Ser Lys Lys
93 1   5   10   15
96 Gln Gly Pro Trp Leu Glu Glu Glu Glu Glu Ala Tyr Gly Trp Met Asp
97   20   25   30
100 Phe
104 <210> SEQ ID NO: 6
105 <211> LENGTH: 4
106 <212> TYPE: PRT
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <223> OTHER INFORMATION: Synthetic
113 <220> FEATURE:
114 <221> NAME/KEY: misc_feature
115 <222> LOCATION: (2)..(2)
116 <223> OTHER INFORMATION: Xaa = at position 2 is norleucine
118 <400> SEQUENCE: 6
W--> 120 Trp Xaa Asp Phe
121 1
124 <210> SEQ ID NO: 7
125 <211> LENGTH: 8
126 <212> TYPE: PRT
127 <213> ORGANISM: Artificial Sequence
129 <220> FEATURE:
130 <223> OTHER INFORMATION: Synthetic
133 <220> FEATURE:
134 <221> NAME/KEY: misc_feature
135 <222> LOCATION: (2)..(2)
136 <223> OTHER INFORMATION: Xaa = at position 2 is sulfotyrosine
138 <400> SEQUENCE: 7
W--> 140 Asp Xaa Met Gly Trp Met Asp Phe
141 1   5
144 <210> SEQ ID NO: 8

RAW SEQUENCE LISTING   DATE: 08/26/2004
PATENT APPLICATION: US/10/505,239   TIME: 15:56:23

Input Set : A:\229694.txt
Output Set: N:\CRF4\08262004\J505239.raw

```
145 <211> LENGTH: 8
146 <212> TYPE: PRT
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: Synthetic
153 <220> FEATURE:
154 <221> NAME/KEY: misc_feature
155 <222> LOCATION: (2)..(2)
156 <223> OTHER INFORMATION: Xaa = at position 2 is sulfotyrosine
158 <220> FEATURE:
159 <221> NAME/KEY: misc_feature
160 <222> LOCATION: (3)..(3)
161 <223> OTHER INFORMATION: Xaa = at position 3 is norleucine
163 <220> FEATURE:
164 <221> NAME/KEY: misc_feature
165 <222> LOCATION: (6)..(6)
166 <223> OTHER INFORMATION: Xaa = at position 6 is norleucine
168 <400> SEQUENCE: 8
W--> 170 Asp Xaa Xaa Gly Trp Xaa Asp Phe
171 1               5
174 <210> SEQ ID NO: 9
175 <211> LENGTH: 27
176 <212> TYPE: PRT
177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Synthetic
182 <400> SEQUENCE: 9
184 Val Pro Leu Pro Ala Gly Gly Gly Thr Val Leu Thr Lys Met Tyr Pro
185 1               5                   10                  15
188 Arg Gly Asn His Trp Ala Val Gly His Leu Met
189             20                  25
192 <210> SEQ ID NO: 10
193 <211> LENGTH: 7
194 <212> TYPE: PRT
195 <213> ORGANISM: Artificial Sequence
197 <220> FEATURE:
198 <223> OTHER INFORMATION: Synthetic
200 <400> SEQUENCE: 10
202 Trp Ala Val Gly His Leu Met
203 1               5
206 <210> SEQ ID NO: 11
207 <211> LENGTH: 14
208 <212> TYPE: PRT
209 <213> ORGANISM: Artificial Sequence
211 <220> FEATURE:
212 <223> OTHER INFORMATION: Synthetic
214 <400> SEQUENCE: 11
216 Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys ·
217 1               5                   10
```

RAW SEQUENCE LISTING   DATE: 08/26/2004
PATENT APPLICATION: US/10/505,239   TIME: 15:56:23

Input Set : A:\229694.txt
Output Set: N:\CRF4\08262004\J505239.raw

220 <210> SEQ ID NO: 12
221 <211> LENGTH: 8
222 <212> TYPE: PRT
223 <213> ORGANISM: Artificial Sequence
225 <220> FEATURE:
226 <223> OTHER INFORMATION: Synthetic
229 <220> FEATURE:
230 <221> NAME/KEY: misc_feature
231 <222> LOCATION: (1)..(8)
232 <223> OTHER INFORMATION: wherein the peptide is carboxylated at either the N-or C-
233   terminus
235 <400> SEQUENCE: 12
237 Phe Cys Phe Trp Lys Thr Cys Thr
238 1   5
241 <210> SEQ ID NO: 13
242 <211> LENGTH: 11
243 <212> TYPE: PRT
244 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: Synthetic
249 <400> SEQUENCE: 13
251 Arg Pro Leu Pro Gln Gln Phe Phe Gly Leu Met
252 1   5   10
255 <210> SEQ ID NO: 14
256 <211> LENGTH: 15
257 <212> TYPE: PRT
258 <213> ORGANISM: Artificial Sequence
260 <220> FEATURE:
261 <223> OTHER INFORMATION: Synthetic
263 <400> SEQUENCE: 14
265 Pro Gly Thr Cys Glu Ile Cys Ala Tyr Ala Ala Cys Thr Gly Cys
266 1   5   10   15
269 <210> SEQ ID NO: 15
270 <211> LENGTH: 14
271 <212> TYPE: PRT
272 <213> ORGANISM: Artificial Sequence
274 <220> FEATURE:
275 <223> OTHER INFORMATION: Synthetic
277 <400> SEQUENCE: 15
279 Asn Asp Asp Cys Glu Leu Cys Val Ala Cys Thr Gly Cys Leu
280 1   5   10
283 <210> SEQ ID NO: 16
284 <211> LENGTH: 16
285 <212> TYPE: PRT
286 <213> ORGANISM: Artificial Sequence
288 <220> FEATURE:
289 <223> OTHER INFORMATION: Synthetic
291 <400> SEQUENCE: 16
293 Asn Tyr Cys Cys Glu Leu Cys Cys Asn Pro Ala Cys Thr Gly Cys Phe

RAW SEQUENCE LISTING   DATE: 08/26/2004
PATENT APPLICATION: US/10/505,239   TIME: 15:56:23

Input Set : A:\229694.txt
Output Set: N:\CRF4\08262004\J505239.raw

```
294 1              5                10                15
297 <210> SEQ ID NO: 17
298 <211> LENGTH: 29
299 <212> TYPE: PRT
300 <213> ORGANISM: Artificial Sequence
302 <220> FEATURE:
303 <223> OTHER INFORMATION: Synthetic
305 <400> SEQUENCE: 17
307 His Ser Asp Ala Leu Phe Thr Asp Asn Tyr Thr Arg Leu Arg Leu Gln
308 1              5                10                15
311 Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Leu Asn Gly
312            20             25
315 <210> SEQ ID NO: 18.
316 <211> LENGTH: 29
317 <212> TYPE: PRT
318 <213> ORGANISM: Artificial Sequence
320 <220> FEATURE:
321 <223> OTHER INFORMATION: Synthetic
324 <220> FEATURE:
325 <221> NAME/KEY: misc_feature
326 <222> LOCATION: (17)..(17)
327 <223> OTHER INFORMATION: Xaa = at position 17 is norleucine
329 <400> SEQUENCE: 18
331 His Ser Asp Ala Leu Phe Thr Asp Asn Tyr Thr Arg Leu Arg Leu Gln
332 1              5                10                15
```
W--> 335 Xaa Ala Val Lys Lys Tyr Leu Asn Ser Ile Leu Asn Gly
```
336            20             25
339 <210> SEQ ID NO: 19
340 <211> LENGTH: 7
341 <212> TYPE: PRT
342 <213> ORGANISM: Artificial Sequence
344 <220> FEATURE:
345 <223> OTHER INFORMATION: Synthetic
348 <220> FEATURE:
349 <221> NAME/KEY: misc_feature
350 <222> LOCATION: (5)..(5)
351 <223> OTHER INFORMATION: Xaa = at position 5 is norleucine
353 <400> SEQUENCE: 19
```
W--> 355 Ala Tyr Gly Trp Xaa Asp Phe
```
356 1              5
359 <210> SEQ ID NO: 20
360 <211> LENGTH: 10
361 <212> TYPE: PRT
362 <213> ORGANISM: Artificial Sequence
364 <220> FEATURE:
365 <223> OTHER INFORMATION: Synthetic
368 <220> FEATURE:
369 <221> NAME/KEY: misc_feature
370 <222> LOCATION: (8)..(8)
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 08/26/2004
PATENT APPLICATION: US/10/505,239   TIME: 15:56:24

Input Set : A:\229694.txt
Output Set: N:\CRF4\08262004\J505239.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; Xaa Pos. 2
Seq#:7; Xaa Pos. 2
Seq#:8; Xaa Pos. 2,3,6
Seq#:18; Xaa Pos. 17
Seq#:19; Xaa Pos. 5
Seq#:20; Xaa Pos. 8
Seq#:21; Xaa Pos. 1
Seq#:22; Xaa Pos. 1,2
Seq#:23; Xaa Pos. 1,2
Seq#:24; Xaa Pos. 1
Seq#:25; Xaa Pos. 13
Seq#:26; Xaa Pos. 13
Seq#:27; Xaa Pos. 1,13
Seq#:28; Xaa Pos. 13

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:25,26,27,28

VERIFICATION SUMMARY   DATE: 08/26/2004
PATENT APPLICATION: US/10/505,239   TIME: 15:56:24

Input Set : A:\229694.txt
Output Set: N:\CRF4\08262004\J505239.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:16
L:355 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:445 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:465 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:485 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:515 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:546 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:566 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0